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COMMUNITY ON-LINE INTELLIGENCE  
SYSTEM (U)

STATISTICAL SUMMARY  
OF  
USAGE AND PERFORMANCE

TR-72-1169-14

25X1

[Redacted]  
14 December 1972

Contract Number DAAB03-70-C-0163

EXCLUDED FROM GDS  
(DD Form 254 GP-1)

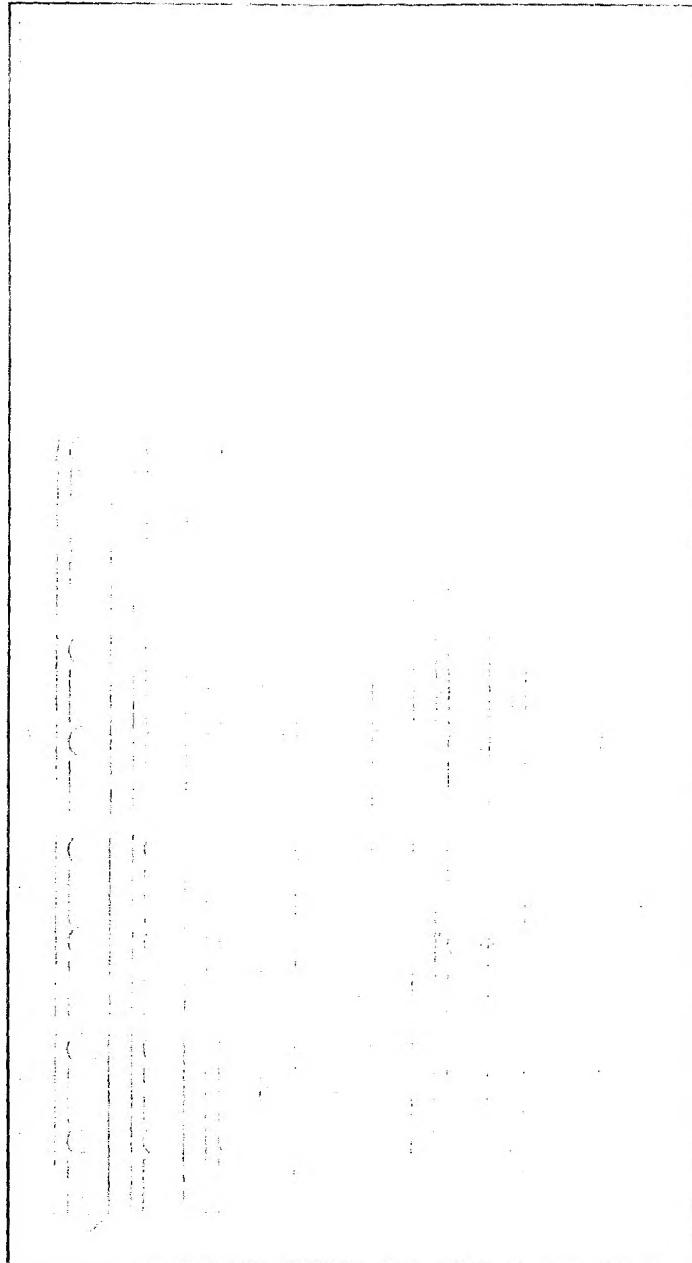
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COMMUNITY ON-LINE INTELLIGENCE SYSTEM

STATISTICAL SUMMARY  
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SUMMARY OF COINS TRAFFIC  
for Period of October 1971 - October 1972 (U)

MONTH	NUMBER OF INTERROGATIONS
OCT 71	(1004)
NOV 71	1753
DEC 71	1101
JAN 72	1104
FEB 72	1359
MAR 72	1697
APR 72	1303
MAY 72	2052
JUNE 72	1972
JULY 72	2599
AUG 72	2319
SEPT 72	1970
OCT 72	1817
TOTAL NOV-OCT	21046

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MAJOR EVENTS

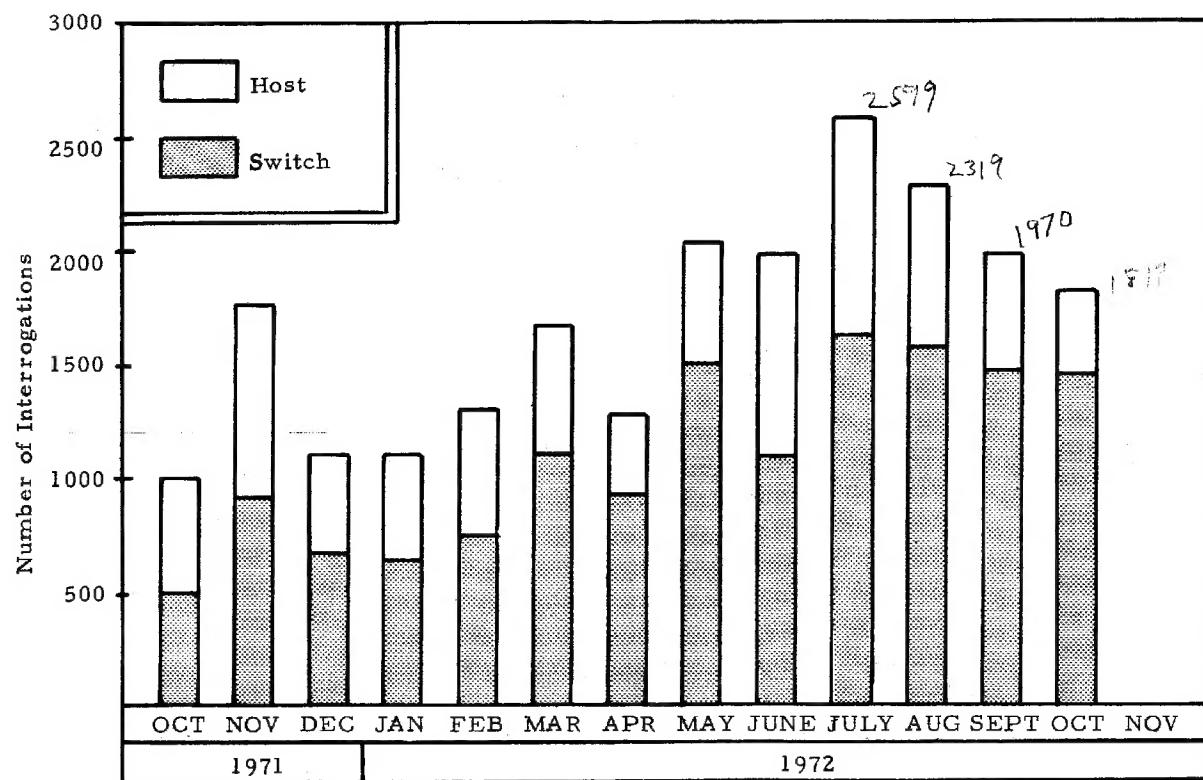
Oct 1971	TEST AND ANALYSIS TASK BEGUN
Nov 1971	FIRST REPORT DISTRIBUTED
Dec 1972	SUCCESSFUL CONTROLLED TEST
Feb 1972	BEGAN IDENTIFICATION OF NFOIO AS A SUBSCRIBER
Mar 1972	CONAD UNAVAILABLE FOR TWO WEEKS DUE TO CONSTRUCTION
Mar 1972	SUCCESSFUL CONTROLLED TEST
Apr 1972	DISCONTINUED INCLUSION OF DIA/CONAD TRAFFIC
Apr 1972	PACOM JOINED COINS NETWORK
Apr 1972	NSA IMPLEMENTS MAJOR SYSTEM CHANGE
May-June 1972	NPIC UNAVAILABLE DUE TO CONSTRUCTION
June 1972	TMA IMPLEMENTATION COMPLETE
Oct 1972	IDENTIFY DIA SCHOOL AND NSA TILE TRAINING FACILITY AS SUBSCRIBERS

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COINS TRAFFIC BY MONTH (U)

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Analysis of COINS Interrogations By Host  
for Period of  
November 1971 - October 1872 (U)

Host	Switch Traffic		External Traffic	
	Number of Interrogations*	Per Cent	Number of Interrogations	Per Cent
CONAD	274	2	274	1
DIA	7,412	54	7,539	36
NPIC	590	4	590	3
NSA	3,089	23	10,376	49
PACOM	2,267	17	2,267	11
TOTAL	13,632	100	21,046	100

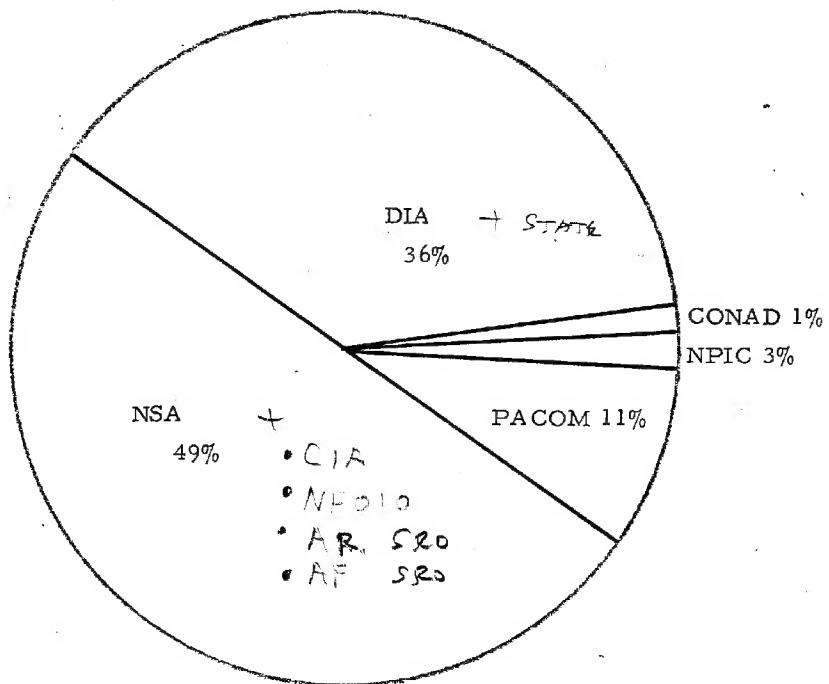
External Traffic omits interrogations against agency's own files.

Switch Traffic omits interrogations against files maintained by agency's Host computer.

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DISTRIBUTION OF COINS TRAFFIC BY HOST SYSTEM  
NOV 71 - OCT 72 (U)

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Analysis of COINS Interrogations By Addressee  
for Period of  
November 1971 - October 1972 (U)

Addressee	Switch Traffic		External Traffic	
	Number of Interrogations	Per Cent	Number of Interrogations	Per Cent
CONAD	100	1	100	-
DIA	3,355	24	3,482	17
NPIC	83	1	83	-
NSA	10,093	74	17,380	83
PACOM	1	-	1	-
<b>TOTAL</b>	<b>13,632</b>	<b>100</b>	<b>21,046</b>	<b>100</b>

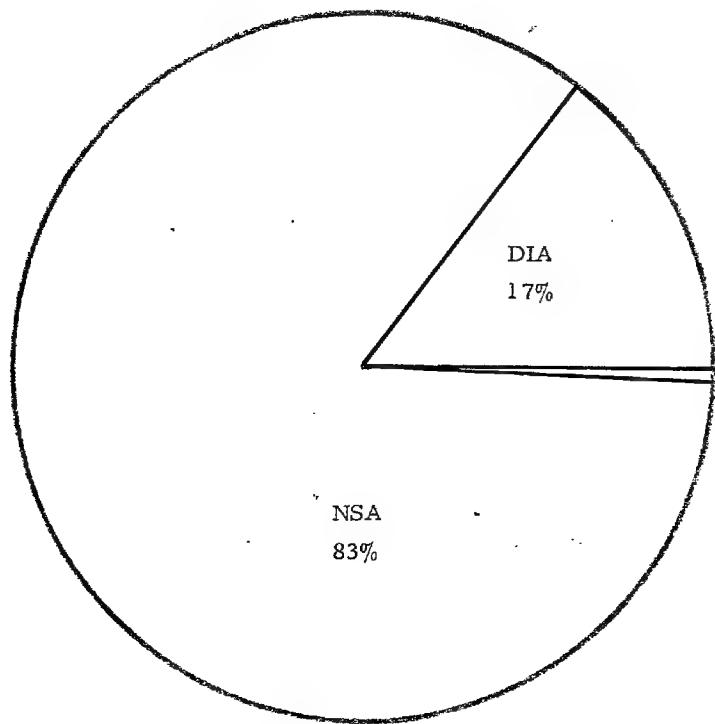
External Traffic omits interrogations against  
agency's own files.

Switch Traffic omits interrogations against files  
maintained by agency's Host computer.

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DISTRIBUTION OF COINS TRAFFIC BY ADDRESSEE  
NOV 71 - OCT 72 (U)

CONAD/No one  
30/40  
SW.  
HIS FILE  
THAT can  
be interrogated,  
e. a 3<sup>rd</sup>  
Host computer

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## Type of Reply Received By Host System (U)

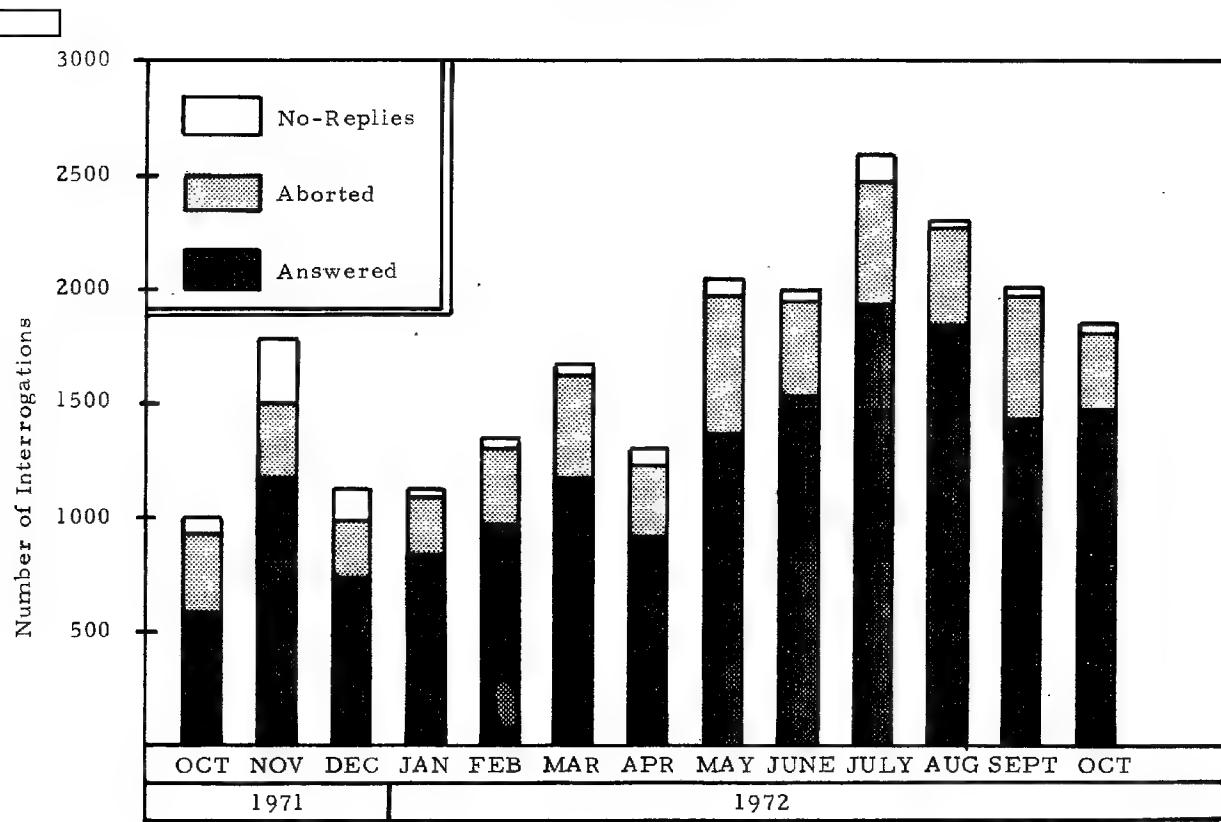
These data reflect the results of the total COINS Network's success in providing a reply to each interrogation received by a Host system from a user. It reflects the (1) cumulative processing performed by three computer systems (host, switch and addressee) for inter-agency traffic and (2) cumulative processing performed by the host computer for intra-Host traffic.

Month		Inter- rogations	Replies		No Replies	Per Cent Success- ful
			Answers	Aborts		
Oct 1971	Number Per Cent	(1004) 100	(755) 75	(166) 17	(83) 8	92
Nov 1971	Number Per Cent	1728 100	1139 66	359 21	230 13	87
Dec 1971	Number Per Cent	1072 100	722 68	260 24	90 8	92
Jan 1972	Number Per Cent	1104 100	837 76	247 22	20 2	98
Feb 1972	Number Per Cent	1359 100	959 71	370 27	30 2	98
Mar 1972	Number Per Cent	1697 100	1175 69	445 26	77 5	95
Apr 1972	Number Per Cent	1303 100	921 71	307 23	75 6	94
May 1972	Number Per Cent	2052 100	1377 67	599 29	76 4	96
June 1972	Number Per Cent	1972 100	1532 78	403 20	37 2	98
July 1972	Number Per Cent	2599 100	1910 73	565 22	124 5	95
Aug 1972	Number Per Cent	2319 100	1842 79	455 20	22 1	99
Sept 1972	Number Per Cent	1970 100	1393 71	540 27	37 2	98
Oct 1972	Number Per Cent	1817 100	1434 79	361 20	22 1	99
TOTAL	Number Per Cent	20992 100	15241 73	4911 23	840 4	96

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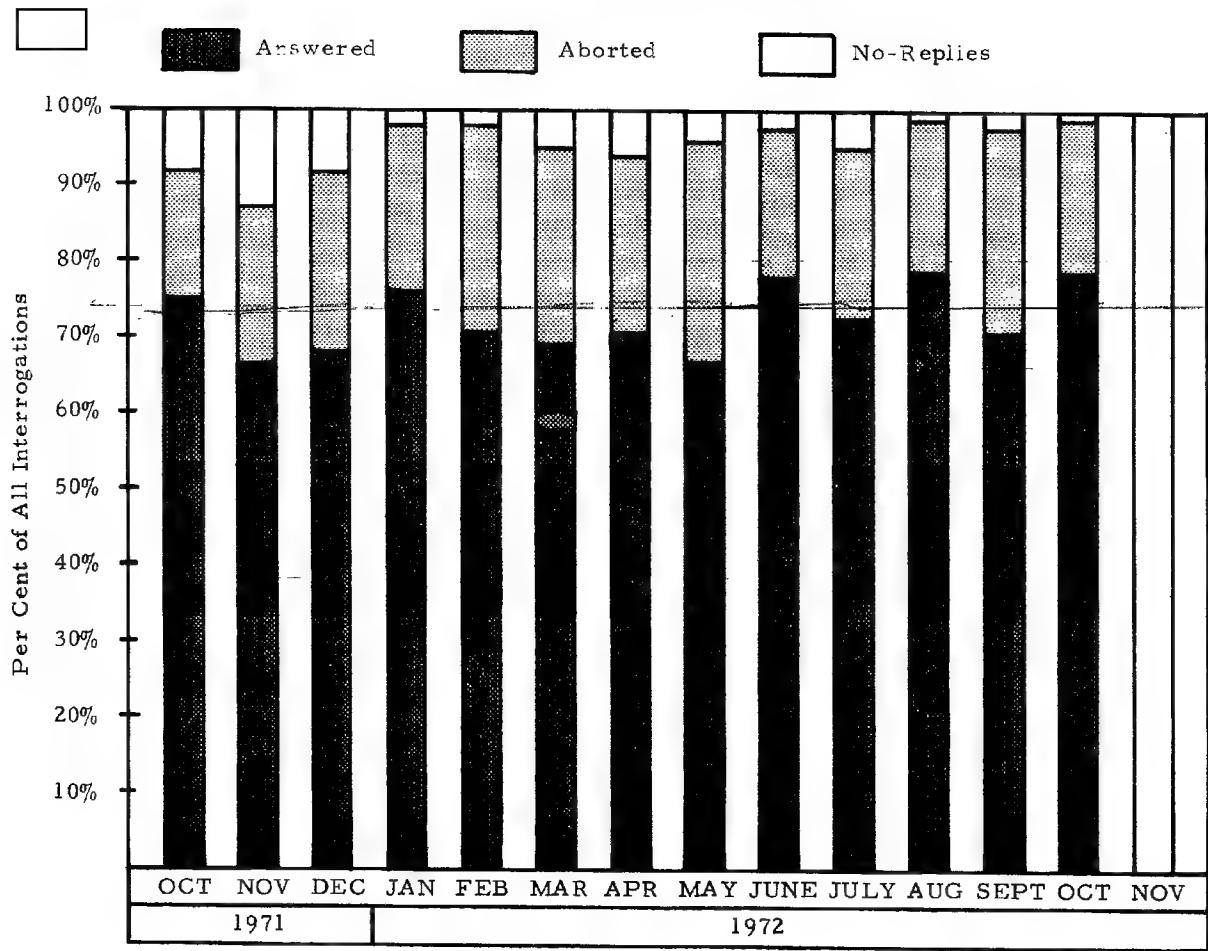


Type of Reply Received By Host System (U)

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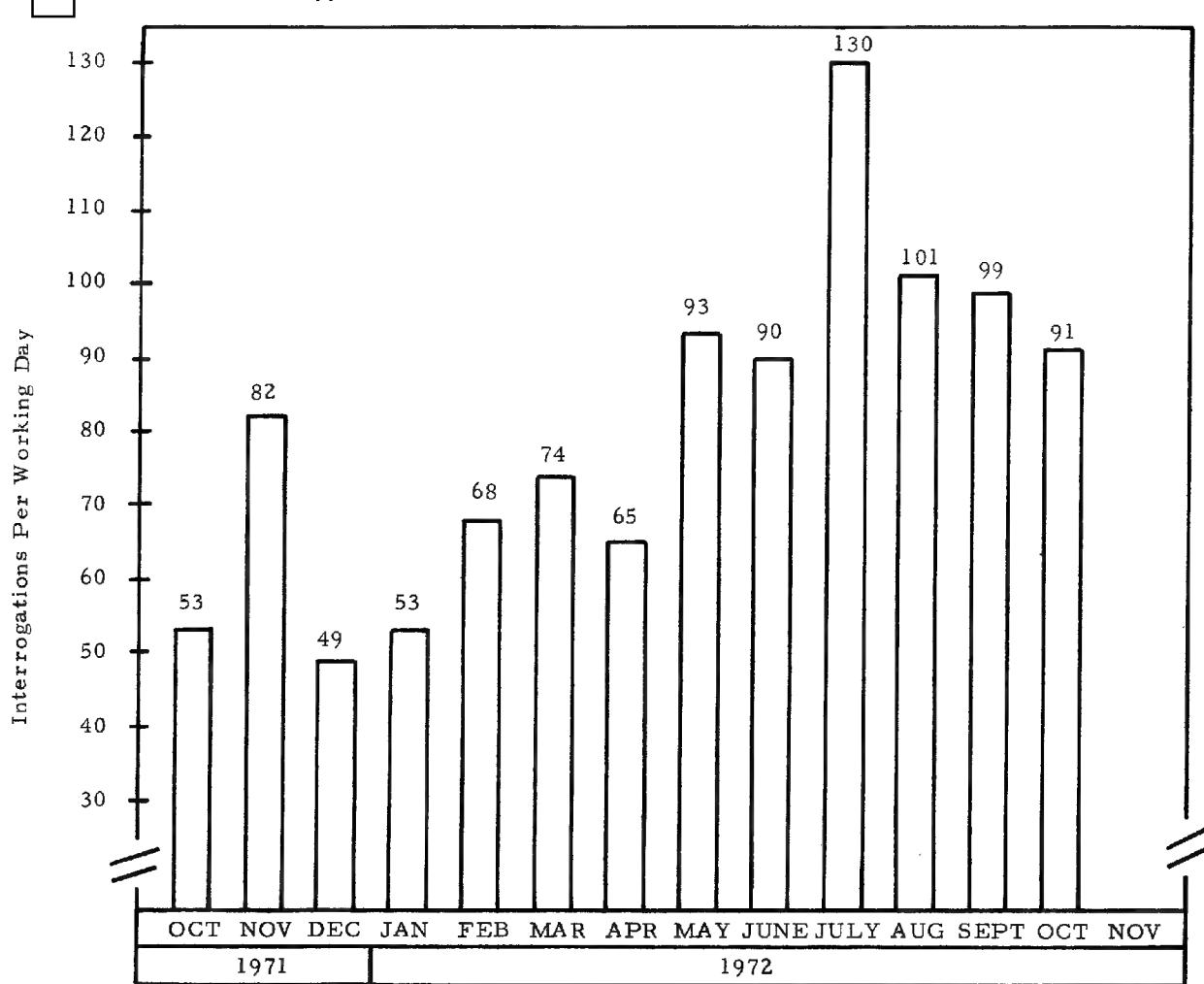
Percentages of Type of Replies Received By the Host Systems (U)

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## Milestones in COINS Interrogation Processing

User Terminal	Host Computer	COINS Switch	Addressee Computer
<p>Present method of recording response times (i.e., not overall terminal to terminal).</p> <p>1. User inputs inter- rogation (INTG).</p> <p>16a. User receives reply.</p>	<p>1a. Host receives INTG.</p> <p>2. Host queues INTG.</p> <p>3. Host sends INTG.</p> <p>4a. Host receives receipt for INTG.</p> <p>13a. Host receives reply.</p> <p>14. Host sends receipt for reply.</p> <p>15. Host queues reply.</p> <p>16. Host sends reply.</p>	<p>3a. Switch receives INTG.</p> <p>4. Switch sends receipt for INTG.</p> <p>5. Switch queues INTG.</p> <p>6. Switch sends INTG.</p> <p>7a. Switch receives re- ceipt for INTG.</p> <p>10a. Switch receives reply.</p> <p>11. Switch sends receipt for reply.</p> <p>12. Switch queues reply.</p> <p>13. Switch sends reply.</p> <p>14a. Switch receives re- ceipt for reply.</p>	<p>6a. Addressee receives INTG.</p> <p>7. Addressee sends re- ceipt for INTG.</p> <p>8. Addressee develops reply.</p> <p>9. Addressee queues reply.</p> <p>10. Addressee sends reply.</p> <p>11a. Addressee receives re- ceipt for reply.</p>

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Summary of Host Turnaround Time for COINS Traffic By Month (U)

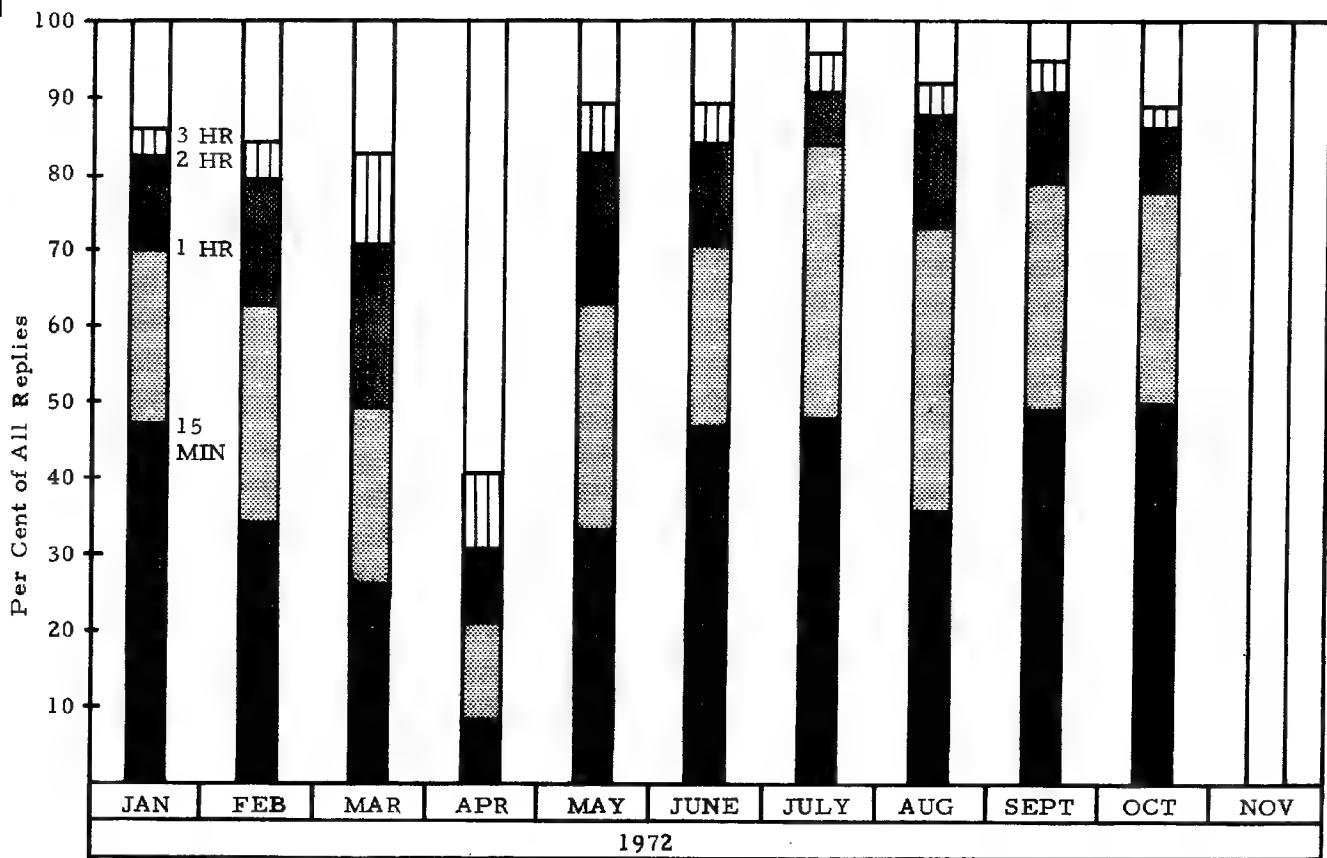
1972 Month		Number of Replies With Turnaround Time By Number of Minutes							
		1-15	16-30	30-60	1-60	61-120	121-180	>180	Total
January	Number Per Cent	220 47	55 12	53 11	328 70	57 12	17 4	67 14	469 100
February	Number Per Cent	222 34	82 13	101 16	405 63	108 16	33 5	101 16	647 100
March	Number Per Cent	241 26	84 9	135 14	460 49	206 22	113 12	160 17	939 100
April	Number Per Cent	55 8	25 4	66 9	146 21	74 10	68 10	406 59	694 100
May	Number Per Cent	385 33	179 15	190 16	754 63	230 20	73 6	135 11	1192 100
June	Number Per Cent	371 47	83 10	109 14	563 71	104 13	37 5	84 11	788 100
July	Number Per Cent	376 48	129 16	157 20	662 84	56 7	41 5	29 4	788 100
August	Number Per Cent	340 36	142 15	208 22	690 73	142 15	38 4	83 8	953 100
September	Number Per Cent	392 49	125 16	114 14	631 79	90 12	35 4	41 5	797 100
October	Number Per Cent	525 50	170 16	128 12	823 78	88 8	31 3	112 11	1054 100
TOTAL	Number Per Cent	3127 38	1074 13	1261 15	5462 66	1155 14	486 6	1218 14	8321 100

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This chart depicts the turnaround time experienced by the Host computer beginning when it transmits interrogation to the Switch and ends when the Host receives reply from the Switch. It is based upon those interrogations originated by its users that require use of the COINS Switch for forwarding. Turnaround time is the cumulative processing performed by the Host, Switch and Addressee computers.

Monthly Distribution of Host Turnaround Time for Replies to COINS Interrogations (U)

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## PROBLEMS

RETRANSMITTED MESSAGES  
IDENTIFYING SUBSCRIBERS  
DIFFERENCES IN RECORDING TIME  
DIFFERENCES IN DEFINING TURNAROUND TIME  
OVERNIGHT TRAFFIC  
ABSENCE OF HOST LOGS FROM CONAD AND PACOM  
SWITCH'S SUPPORT TO IDHSC  
ABSENCE OF DATA ON DIAOLS' USE OF DIA COINS  
FILES

## UNAVAILABILITY OF BREAK/READY STATUS DATA

• Needs  
standardized  
reporting system,

• SYSTEM DEFICIENCIES

- TECH CONTROL.  
(i.e. isolate trouble - terminal, communications, telephone, or host computer system)
- SPEED -
- CRT
- PRINTED

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SUMMARY

COINS' USAGE HAS STEADILY INCREASED PEAKING IN JULY.  
SINCE JULY, HAS LEVELED OUT.

COINS' SUCCESS IN PROVIDING A REPLY HAS SIGNIFICANTLY  
IMPROVED AND HAS ACHIEVED 98-99% FOR THE LAST  
THREE MONTHS.

HOST TURNAROUND TIME HAS STEADILY IMPROVED AFTER  
SYSTEM CHANGES IN THE SPRING; ABOUT 44%  
OF REPLIES BEING RECEIVED WITHIN 15 MINUTES  
AND 75% WITHIN THE FIRST HOUR.

STRFA AND FINTL FILES ARE MOST FREQUENTLY INTERROGATED.

12 FILES HAVE BEEN <sup>added</sup> <sub>TO</sub> COINS AND 5 FILES HAVE BEEN REMOVED.

NSA RECEIVES AND PROCESSES 83% OF ALL COINS INTERROGA-  
TIONS.

NSA SUBSCRIBERS ORIGINATE 49% OF ALL COINS INTERROGA-  
TIONS.

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MEMORANDUM FOR:

Attachments 2-7 to  
140-MA-369 -  
6th Meeting of  
ASD/F Comint Review Group  
6<sup>th</sup> MTG  
(DATE)

FORM NO. 101 REPLACES FORM 10-101  
1 AUG 54 WHICH MAY BE USED.

(47)